



Mental Computation

Year 9 Mathematics

End Term 1

Mental computation (End Term 1)

1 Spell Pythagoras.

2 What is the linear rule for:

x	0	1	2	3
y	1	3	5	7

3 Roughly sketch the rule: $y = 2x + 1$

4 What is the formula for the area of a triangle?

5 What is the area of a rectangle 6 m by 3 m?

6 Simplify: $4x - 6x$

7 Expand: $2(x - 5)$

8 Factorise: $5x + 10$

9 $10^3 \times 10^5$

10 14×15

Sample 1

Mental computation (End Term 1)

1 Spell parabola.

2 What is the linear rule for:

x	0	1	2	3
y	-6	-3	0	3

3 Roughly sketch the rule: $y = x + 2$

4 What is the formula for the area of a circle?

5 What is the area of a triangle, height = 6 m and base = 7 m?

6 Simplify: $5x - 8x$

7 Expand: $5(x - 2)$

8 Factorise: $6x + 8$

9 $10^3 \times 10^4$

10 16×15

Sample 2

Mental computation (End Term 1)

1 Spell cylinder.

2 What is the linear rule for:

x	0	1	2	3
y	-2	0	2	4

3 Roughly sketch the rule: $y = 2x + 3$

4 What is the formula for the area of a triangle?

5 What is the area of a rectangle 3 m by 8 m?

6 Simplify: $5b - 7b$

7 Expand: $4(x - 2)$

8 Factorise: $6x + 8$

9 $10^2 \times 10^7$

10 24×15

Sample 3